Rec 24 June 69

STATINTL

June 17, 1969

[redacted]
Washington, D.C.

Dear John:

Here is the financial report on our project 6619 through May 16, 1969.

STATINTL

Total Amount Available	[redacted]
Expended through April 18, 1969*	
Amount Remaining as of April 18, 1969	
Total Amount Expended from April 18 through May 16, 1969	
Total Amount Remaining as of May 16, 1969	

STATINTL

* This amount includes an amount of [redacted] which your Technical Monitor has declined to sign off on.

If you have any questions, please give me a call.

STATINTL

Sincerely,

[redacted]

Program Manager

WWM/mls

Declass Review by NIMA/DOD

Rec 19 June 69

STATINTL

June 17, 1969

[redacted]
Washington, D.C.

Subject: Project 6619

Dear John:

Enclosed are two (2) copies of Progress Report No. 7 in accordance with the schedule of the subject contract.

STATINTL

Sincerely,

[redacted]

Program Manager

WWM/mls
Encl: As stated

PROGRESS REPORT NO. 7

COLOR IMAGE ASSESSMENT

PROJECT 6619

by

STATINTL [redacted]

Period: May 1 through May 31, 1969

Approved For Release 2002/05/08 : CIA-RDP78B04747A001100030041-2

COLOR IMAGE ASSESSMENT

PROGRESS DURING THE PERIOD

The complete set of edge traces were received from the customer. All traces were performed as directed and are currently being processed to obtain MTF information for the SO 151 emulsion. The direction cosine program was utilized to gain dye layer information on the SO 155 emulsion. It appears that the SO 155 dye image is not angularly stable at low dye concentration. Beer's law appears to hold for visual diffuse densities above .7. The asymptotic angles resulting from the direction cosine plot for SO 155-16-32 are as follows:

emulsion: 0-155-16-32

YC	69^{o}
YM	51^{o}
CM	62^{o}

Extensive investigation into the VECTOR routine and SEIGEN selective exposure generation routine has succeeded in bringing to light the sources of errors to which the regeneration routine is presently subject.

Computing the characteristic vectors from a neutral and mean corrected variance-covariance matrix increases the number of vectors required to account for 99% of trace but also appears to reduce regeneration errors. The tables used in the test case were also corrected for a fixed exposure cut-off as follows:

Fixed Exposure Cut-Off Points for Analytical Exposure Tables

EXPOSURE TABLE		Log $E_{cut\text{-}off}$
Yellow	toe	2.85
	shoulder	0.30
Magenta	toe	2.67
	shoulder	0.25

Cyan	toe	2.81
	shoulder	0.46

The final report is progressing well in the draft form even though not all experimental work is completed. The final report is now 60% completed.

WORK PLANNED FOR NEXT PERIOD

Major work to be completed is the generation and testing of an MTF routine for analytical edges. This will be accomplished using the edge traces on SO 151 recently received from the customer. A meeting between [redacted] and the customer's personnel is planned for 30 June, 1969 at which time the rough draft copy of the final report will be delivered.

STATINTL